

Claims

We claim:

1. A method for expressing a plant-expressible structural gene in a tissue-specific manner in a nodule of a soybean plant which comprises the step of growing a transformed soybean plant that contains a recombinant DNA molecule comprising an Enod2 gene regulatory region, said regulatory region which hybridizes to the DNA sequence of Tables 1 or 2 under conditions of high stringency, and a plant-expressible structural gene other than an Enod2 structural gene positioned such that it is expressed under the regulatory control of said regulatory region.
2. The method of claim 1 wherein said Enod2 gene regulatory region is the Enod2a regulatory region.
3. The method of claim 2 wherein said regulatory region comprises the nucleotide sequence as in SEQ ID NO: 1 extending from about nucleotide 520 to about nucleotide 1565.
4. The method of claim 1 wherein said Enod2 gene regulatory region is the DNA sequence common to the 5' flanking regions of the Enod2a and Enod2b promoters that displays regulatory activity.
5. The method of claim 4 wherein said regulatory region comprises the nucleotide sequence as in SEQ ID NO: 1 extending from about nucleotide 1050 to about nucleotide 1565.
6. The method of claim 1 wherein said structural gene is a foreign structural gene.
7. The method of claim 1 wherein said growing a transformed soybean plant step comprises introducing said recombinant DNA molecule into soybean tissue and regenerating a transformed soybean plant from said transformed tissue.

8. The method of claim 1 wherein said structural gene is expressed in the developing root nodule of a soybean plant and wherein said structural gene is expressed in said nodule beginning about 7 days after seed planting.